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McGEAN-ROHCO, INC. MATERIAL SAFETY DATA SHEET PAGE 1

PRODUCT NAME: JET 91

MSDS No.: 13046

REVISION: 2

PREPARED BY: TSCA COORDINATOR ISSUE DATE: 07/01/80 REVISION DATE: 03/09/92

SECTION A. MATERIAL IDENTIFICATION.

MANUFACTURER: McGEAN-ROHCO, INC.

CHEMTRECE

TELEPHONE #:800-424-9300

38521 SCHOOLCRAFT AVE.

LIVONIA MI 40150

TELEPHONE: 313-872-1600

SECTION B. INGREDIENTS AND HAZARDS.

INGREDIENT: BORAX DECAHYDRATE

CAS NUMBER: 1303-96-4

25.0 - 35.0%

EXPOSURE LIMIT: TWA: 10mg/CUBIC METER

SUSPECT CARCINOGEN: NO

SECTION C. PHYSICAL DATA.

APPEARANCE: MOIST, WHITE, POWDER

ODOR: BLAND

- BOILING POINT: NA

FREEZING POINT: NA

SPECIFIC GRAVITY: NA

PH: NA

VAPOR PRESSURE: NA

VAPOR DENGITY: NA

% VOLATILE BY VOLUME! NA

EVAPORATION RATE: NA

SOLUBILITY IN WATER: 10%

SECTION D. FIRE AND EXPLOSION HAZARD DATA.

FLASH POINT: NONE

TEST METHOD: NA

HAZARD SYMBOL CODES

NEPA HMIS

 $\mathbf{o}$ 

LIMITS: LEL: NA

UEL: NA

HEALTH: Û Q. O FLAMMABILITY:

O REACTIVITY:

SPECIAL:

EXTINGUISHING MEDIA: NOT FLAMMABLE

SPECIAL FIRE FIGHTING NONE

PROCEDURES:

UNUSUAL FIRE OR NONE

EXPLOSION HAZARDS:

RUN: 07/22/92 10:24:52 AM

Magean-Rohco, INC. MATERIAL SAFETY DATA SHEET

PRODUCT NAME: JET 91

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SECTION E. REACTIVITY DATA.

MATERIAL IS STABLE.

HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

CONDITIONS TO

NA

AVOID:

CHEMICAL

STRONG ACIDS

INCOMPATIBILITIES:

HAZARDOUS DECOMPOSITION IF INVOLVED IN A FIRS, UXIDES OF CARBON COULD BE

PRODUCTS:

RELEASED.

SECTION F. HEALTH HAZARD DATA,

SUMMARY OF RISKS:

SARA--CHRONIC

MEDICAL CONDITIONS

NONE KNOWN.

WHICH MAY BE

AGGRAVATED BY CONTACT:

TARGET ORGANS:

EYES, RESPIRATORY TRACT.

PRIMARY ENTRY ROUTES: THROUGH CONTACT AND INHALATION OF DUST.

ACUTE EFFECTS:

NONE KNOWN

CHRONIC EFFECTS:

BORAX IS CONSIDERED A MAMMALIN REPRODUCTIVE TOXIN.

SIGNS & SYMPTOMS OF OVEREXPOSURE:

EYE CONTACT: IRRITATION DUE TO PARTICULATE.

SKIN CONTACT: POSSIBLE SKIN IRRITATION OF SENSITIVE INDIVIDUALS.

INHALATION: IRRITATION OF REPIRATORY TRACT.

INGESTION: NAUSEA.

RUN: 07/22/92 10:24:52 AM McGEAN-RUHCO, INC.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: JET 91

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REVISION: 2

PREPARED BY: TSCA COORDINATOR ISSUE DATE: 07/01/80 REVISION DATE: 03/09/92

EMERGENCY & FIRST AID PROCEDURES:

EYE CONTACT: FLUSH WITH WATER FOR 15 MINUTES. IF ANY IRRITATION PERSISTS,

GET MEDICAL ATTENTION.

SKIN CONTACT: FLUSH THOROUGHLY WITH WATER.

INHALATION: REMOVE TO FRESH AIR.

INGESTION:

IF CONSCIOUS, GIVE SEVERAL CLASSES OF WATER AND INDUCE VOMITING

GET MEDICAL ATTENTION.

SECTION G. SPILL, LEAK AND DISPOSAL PROCEDURES.

SPILL/LEAK SWEEP OR VACUUM UP, FLUSH AREA WITH WATER.

PROCEDURES:

WASTE SEND TO LANDFILL OR DISSOLVE IN WATER, NEUTRALIZE TO

MANAGEMENT WITHIN POTW PH LIMITS AND SEWER.

& DISPOSAL FOLLOW ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

PROCEDURES:

RORA # (IF DISPOSED AS RECEIVED): NONE

SECTION H. SPECIAL PROTECTION INFORMATION

PERSONAL PROTECTIVE EQUIPMENT:

GOGGLES: SAFETY GLASSES. GLOVES: RUBBER.

RESPIRATOR: IF TWA IS EXCEEDED, MUST BE NICSH OR MSHA APPROVED.

OTHER:

SUFFICIENT TO PREVENT SKIN CONTACT.

WORKPLACE CONSIDERATIONS:

VENTILATION: SUFFICIENT TO KEEP BELOW TWA LIMIT.

SAFETY STATIONS: EYE WASH.

OTHER:

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: JET 91

MSDS No.: 13046

REVISION: 2

PREPARED BY: TSCA COORDINATOR ISSUE DATE: 07/01/80 REVISION DATE: 03/09/92

SECTION I. SPECIAL PRECAUTIONS.

SPECIAL HANDLING STORE IN A COOL, DRY AREA TO PREVENT CAKING.

& STORAGE PROCEDURES:

D.O.T. CLASS: IMCO CLASS:

NONE NONE UN REGISTER: NONE

UN REGISTER: NONE

EXPLANATION OF SYMBOLS

NA = NOT APPLICABLE UK = UNKNOWN

THIS MATERIAL SAFETY DATA SHEET IS OFFERED SOLELY FOR YOUR INFORMATION, CONSIDERATION, AND INVESTIGATION. WHILE THE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE BELIEVED TO BE ACCURATE AS OF THE DATE HEREOF, McGEAN-ROHCO, INC. MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

# DATA SHEET



Manufacturer's Name	PENNIZOIL CO., GUNOUT DIVISION		CAS Number: HIXTURE  MSDS Code: 000951	
Address	410 GATEHAY CEHTER PITTSBURGH, PENNS		HFPA Hazard Degree of Hazard Health: 1	Hazard Ratings  0 - Least 1 - Slight
Emergency Tolephone No.	1713) 236-6070		Fire: 3 Reactivity: 0	2 - Moderate 3 - High 4 - Extreme
Trade Name	J. C.		LEANER	1
Synonyms		DESCRIPTION OF THE PARTY OF THE		
II INGREDIENTS	<b>建建筑设施</b>			
COMPONENT NAME  CAS NUMBER	HAZARDOUS IN BLEND	PERCENTAGE MIN MAX	COMPONENT EXPOSURE LIMITS	UNITS
PETROLEUM SOLVENT PROFRIETARY ALCOHOL MARKET MARKET	YES	45.00 TO 80.00	OSHA PEL ACGIH TLY	NO LIMIT
PROPRIETARY SURFACTANTS PROPRIETARY	YES ALLEGA	1.00 TO 5.00	OSHA PEL OSHA PEL OSHA PEL ACGIN TLV	HO LIMIT HO LIMIT HO LIMIT HO LIMIT
AND STATE OF THE S	YES THE			00 HG/H3
DISCLATHER OF WARR	ANTY:		S. AND REFLECTS OUR BEST Y USE, OR ANY OTHER WATRA BE HER MAY HE AFTER USE THE ABOUT ASSUME ANY RESPONDING HAT THE PERSON A PARTICULAR PURPOSE.	

## III HEALTHAEFFECT INFORMATION

XACT

AVOID EYE CONFACT. THIS PRODUCT HAY BE HILDLY TO HODERATELY IRRITATING TO THE EYE UPON

PRINTEDIAN

AVOID SKIN CONTACT, THIS PRODUCT HAY CAUSE SKIN IRRITATION UPON DIRECT CONTACT, PROLONGED OR REPEATED CONTACT MAY RESULT IN CONTACT DERMATITIS WHICH IS CHARACTERIZED BY DRYNESS, CHAPPING, AND REDDENING. THIS CONDITION MAY HAKE THE SKIN HORE SUSCEPTIBLE TO OTHER IRRITANTS, SENSITIZERS, AND DISEASE, PRE-EXISTING SKIN CONDITIONS MAY MAKE THE SKIN MORE SUSCEPTIBLE AND FACILITATE UPTAKE BY THIS ROUTE.

BUILDATION

AVOID PROLONGED INHALATION OF VAPORS, EXPOSURE TO VAPORS HAY BE IRRITATING TO THE THROAT AND LUNGS. WHEN HIGH CONCENTRATIONS ARE INHALED, HUMAN SIGNS MAY INCLUDE A REDDENING OF, THE FACE AND A FEELING OF INCREASED BODY HEAT. IN ADDITION, DISTURBED VISION, DIZZINESS, TREHORS, SALIVATION, CARDIAC STRESS, DROWSINESS, DULLNESS, NUMBNESS, WEAKNESS, HEADACHE, HAUSEA, AND CONFUSION, AS WELL AS RESPIRATORY DIFFICULTIES MAY BE APPARENT. SIGNS AND SYMPTOMS FROM CHRONIC EXPOSURE RESEMBLE THOSE FROM ACUIE MISTAPS BUT ARE IN PART SYSTEMICALLY MORE SEVERE. LONG-TERM EXPOSURE TO VAPOR CONCENTRATIONS HAVE BEEN REPORTED TO PRODUCE HOH-SPECIFIC SYMPTOMS SUCH AS HERVOUSNESS, LOSS OF APPETITE, NAUSEA, AND DIARRHEA. OTHER SYMPTOMS RELATED TO THE MERVOUS SYSTEM, GASTROINTESTHAL TRACT, LUNGS, EYES, AND REPRODUCTIVE SYSTEM HAVE BEEN CITED.

HILLESTION TO

DO NOT INGEST. INGESTION MAY RESULT IN LUNG ASPIRATION. INGESTION WILL CAUSE SEVERE CASTROINIESTINAL DISTRESS. SEVERE ORAL INTOXICATION WILL LEAD TO INTENSE EURNING OF THE THROAT AND HAY RESULT IN DROWSINESS, DULINESS, NUMBRIESS, AND HEADACHE FOLLOWED BY DIZINESS, WEAKNESS, AND NAUSEA. LOSS OF CONSCIOUSNESS AND CONVULSIONS FOLLOWED BY DEATH MAY RESULT. SEE HEALTH DATA SECTION BELOW.

HEALTH DATA

ASPIRATION MAY LEAD TO CHEMICAL PNEUMONITIS WHICH IS CHARACTERIZED BY PULMONARY EDEMA AND HEHORRHAGE, AND MAY BE FATAL. SIGNS OF LUNG INVOLVEMENT THICLUDE INCREASED RESPIRATION HALE, INCREASED HEART RATE, AND A BLUISH DISCOLORATION OF THE SKIN. COUGHING, CHOKING, AND GAGGING ARE OFTEN NOIED AT THE TIME OF ASPIRATION. CASTROINTESTIMAL DISCOMFORT MAY DEVELOP, FOLLOWED BY YOMITTING, WITH A FURTHER RISK OF ASPIRATION.

		1.0		
IV FMF#	BENCYFAMPIN	SIMALDER	roefmi	RFS

EVE CONTACT TIMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER AND CONTINUE FLUSHING FOR 15 MINUTES

SIGH CONTACT WASHINGTON THE PROPERTY OF THE PROPERTY OF THE TOTAL ATTENTION.

INHALATION.

IF EXPOSURE LEVELS EXCEED THE LIMITS LISTED IN SECTION II OR III, REMOVE VICTIM FROM EXPOSURE. IF DISCOMPORT PERSISTS SEEK MEDICAL ATTENTION.

!HCESTION

DO NOT INDUCE VONITING BEEN NUBSER ATTENTION

TRW-01403

## PERSONAL LIEAL THE PROTECTION INFORMATION

TECTION

EYE PROTECTION IS NOT REQUIRED UNDER CONDITIONS OF NORMAL USE. IF MATERIAL 13 HANDLED BUCH THAT IT COULD BE SPLASHED INTO EYES, WEAR PLASTIC FACE SHIELD OR SPLASH-FROOF SAFETY GOGGLES.

SINH , PROTECTION

USE IMPERVIOUS SYMTHETIC RUBBER CLOTHING (BOOTS, GLOVES, APRONS, EFC.) OVER PARTS OF THE BODY SUBJECT TO EXFOSURE.

RESPIRATORY PROTECTION

RESPIRATORY PROTECTION IS NOT REQUIRED UNDER CONDITIONS OF NORMAL USE. IF VAPOR OR HIST IS CENERATED WHEN THE MATERIAL IS HEATED OR HANDLED, USE AN ORGANIC VAPOR RESPIRATOR WITH A DUST AND HIST FILTER. ALL RESPIRATORS MUST BE NIOSH CERTIFIED.

**VENTILATION** 

GENERAL ROOM VENTILATION IS NORMALLY SUFFICIENT. IF VAPOR OR MIST IS GENERATED WHEN THE MATERIAL IS HEATED OR HANDLED, ADEQUATE VENTILATION IN ACCORDANCE WITH GOOD ENGINEERING PRACTICE MUST BE PROVIDED TO MAINTAIN CONCENTRATIONS BELOW THE SPECIFIED EXPOSURE OR FLAMMABLE LIMITS.

OTHER

CONSUMPTION OF FOOD AND BEVERAGE SHOULD BE AVOIDED IN WORK AREAS WHERE HYDROCARBONS ARE PRESENT. ALWAYS WASH MANUS AND FACE WITH SOAP AND WATER DEFORE EATING, DRINKING, OR SHOKING,

Lash Point 📑 🧸	20F	TEST METHOL	High Age of the Comment of the Comme	
TOIGNITION TEM	IPERATURE HO DATA	TEST METHOL	) HO DATA	
	S IN AIR % BY VOL.	LOWER NO DATA	UPPER NO DATA	•
CINGUISHING EDIA	USE DRY CHEHICAL,	FOAH, OR CARBON DIOXIDE.		
				•
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1				
PECIAL FIRE	WATER MAY BE INEFI	FECTIVE BUT CAN BE USED TO COOL CO	NTAINERS EXPOSED TO HEAT	OR FLAME.
GHTING ROCEDURES				
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· :				
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	•			
HUSUAL FIRE	DENSE SHOKE MAY B	E GENERATED WHILE BURNING, CARBON FRATED AS PRODUCTS OF CONSUSTION.	MOHOXIDE, CARBON DIOXIDE,	AND OTHER
ND EXPLOSIVE ONDITIONS	AND CAN EXPLODE W	HEN EXPOSED TO HEAT OR FLAMES.	CAUTION: 4-CONTENTS ARE OF	TOER PRESSOR
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## VIII ENVIRONMENTAL PRECAUTIONS: 管理等等。

STEPS TO BE TAKEN IF TERIAL IS INCLEASED OR SPILLED CONSULT HEALTH EFFECT INFORMATION IN SECTION III, PERSONAL HEALTH PROTECTION INFORMATION IN SECTION V, FIRE PROTECTION INFORMATION IN SECTION VI, AND REACTIVITY DATA IN SECTION VII. NOTIFY APPROPRIATE AUTHORITIES OF SPILL CONTAIN SPILL IMMEDIATELY. DO NOT ALLOW SPILL TO ENTER SEWERS OR MATERICOURSES, REMOVE ALL SOURCES OF IGNITION. PROVIDE ACSQUATE VEHTILATION DURING CLEAN-UP. ABSORD WITH SOLVENT ACSORDENT MATERIAL. LARGE SFILLS MAY BE PICKED UP USING VACUUM PUPPS, SHOVELS, BUCKETS, OR OTHER MEANS AND PLACED IN DRUMS OR OTHER SUITABLE CONTAINERS.

WASTE DISPOSAL METHOD

ALL DISPOSALS HUST COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS. THE MATERIAL, IF SPILLED OR DISCARDED, MAY BE A RCRA WASTE. THE MATERIAL, IF SPILLED OR DISCARDED, MAY BE A REGULATED WASTE. REFER TO STATE AND LOCAL REGULATIONS. CAUTION! IF REGULATED SOLVENTS ARE USED TO CLEAN UP SPILLED MATERIAL, THE RESULTING WASTE MIXTURE MAY BE REGULATED. DEPARTHENT OF TRANSPORTATION (DOT) REGULATIONS HAY APPLY FOR TRANSPORTING THIS MATERIAL WHEN SPILLED. WASTE MATERIAL HAY BE LANDFILLED OR INCINERATED AT AN APPROVED FACILITY.

## . IX HISCELLANEOUS

HANDLING AND YRAGE ...OUIREMENTS THIS PRODUCT IS CLASSIFIED AS ORM-D (CONSUMER COMMODITY) UNDER DOT REGULATIONS. SEE 49 CFR 171 THROUGH 178 FOR SHIPPING REQUIREMENTS. ALL IGNITION EDURCES IN THE AREA SHOULD BE CONTROLLED. FIRE FXIIIGUISHERS SHOULD BE KEPT READILY AVAILABLE. SEE NFPA 30 AND OSHA 1910.106--FLANHABLE AND COMBUSTIBLE LIQUIDS. DO NOT STORE AT TEMPERATURES GREATER THAN 120 F. CONTENTS UNDER PRESSURE AND CAN EXPLODE WHEN EXPOSED TO HEAT OR OPEN FLAME. CAUTION!--DO NOT PUNCTURE OR INCINERATE.

ADDITIONAL HIFORMATION

THIS MIXTURE MAY BE FORMULATED IN PART WITH COMPONENTS PURCHASED FROM OTHER COMPANIES. IN MANY INSTANCES, ESPECIALLY WHEN PROPRIETARY OR TRADE SECRET MATERIALS ARE USED, PENNZOIL COMPANY MUST RELY UPON THE HAZARD EVALUATION OF SUCH COMPONENT SUBMITTED TO FEMNZOIL BY THAT PRODUCT'S MANUFACTURER OR IMPORTER.

## 

POILING POINT	< -20F (PROPELLANT)	PERCENT VOLATILE	10
. LTING POINT	H/A	VAPOR DENSITY (AIR-1)	3 - 5
\PPE	Lac Velv	EVAPORATION RATE (EE-1)	<b>&gt;1</b>
		SPECIFIC GRAVITY	0.9
VAPOR PRESSURE	SOPSIG # 20C IN CAN.	MOLECULAR WEIGHT	VARIES
SOLUBILITY	SOLIDE F TH HYCOGCARDONS FMU STETS	et anno en el como en	

. 1

SOLUBILITY

BOLDBLE IN HYDROGARDONS, EMULSIFIES IN MACLO

toenneely "Jon-Cote" 614



**Castrol North America** 

Fax

775 Louis Drive Warminster PA 18974

Telephone (215) 443 5220 Fax (215) 443 7094

To

Dick Russel

Date 9/21/93

Time

Company

TRW, Fasteners Division

Fax Number

(617) 494-5536

From

Becki Minich

Number of pages 8 (including cover)

Following is the data you requested on the 14th. Sorry for the delay.

Product Information for: Safety-Film 614

Safety-Flun 615

CRSTROI Bought this Product Line from Johnson Wax vader Johnson name of "Jon Cote 614"

TRW-01407

Castrol North America is a trace came introd by Castrol Inc and affected entities.

A BURMAH CASTROLCOMPANY

TESUM MUUSUMAT PROGRAMMA

## SAFETY-FILM® 614

(FORMERLY CALLED JON-COTE #614)

## PROTECTIVE COATING

SAFETY-FILM® 614 is a unique water-base wax emulsion which is used as a dual purpose dry film lubricant and corrosion preventive. SAFETY-FILM® 614 also enhances the appearance of most surfaces.

SAFETY-FILM® 614 is recommended for use as a corrosion preventive and dry film lubricant for use on artillery shell casings, small arms ammunition clips, and other weather proofing military applications. SAFETY-FILM® 614 meets military specification MIL-W-3888-C. SAFETY-FILM® 614 is also an excellent corrosion preventive and dry film lubricant for steel strapping and is a good piano stringing lubricant.

SAFETY-FILM® 614 is used as a torque reduction and corrosion resistant lubricant on various fasteners. In addition, SAFETY-FILM® 614 is used as a dry film lubricant in installation of various rivets.

This product is recommended for use as a corrosion preventive and decorative coating on cast iron, and over treated surfaces such as phosphated, Bonderized and anodized surfaces. Provides additional protection over all types of plating including cadmium and zinc.

The dry film subricating and release characteristics of SAFETY-FILM® 614 make it an ideal mold release for gold leaf and a good joint subricant for umbrella-type television antennas.

In addition, SAFETY-FILM® 614 can be used as a dressing on rubber, plastic and leather. SAFETY-FILM® 614 can also be used to provide surface-protection and enhance the appearance of interior wood paneling.

## **KEY PERFORMANCE BENEFITS**

- Excellent corrosion control (meets Mil-W-3688-C)
- Superior dry film lubrication
- Enhances appearance of most surfaces.
- Effective on a wide variety of substrates
- Provides medium gloss dry film (buffable)
- Non-flammable
- Easy to apply
- Easily diluted and mixed
- Excellent coverage
- Easy to remove.

TRW-01408

Headquarters 1001 West 31st Street Downers Grave IL 60515 (708) 241 4000 Eastern Sales Operation 775 Louis Drive Warminster PA 18974 (215) 443 5220

Midwest Sales Operation 149 Grant Street North Aurora IL 60542 (708) 892 8881 Western Sales Operation 5511 District Boulevard Los Angeles CA 90040 (213) 771 7000

Castrol Mexico/ALGC Norte 45 No. 812 02300 Industrial Vallejo Mexico, D.F.



### **APPLICATION**

To achieve effective adhesion, apply SAFETY-FiLM® 614 to surfaces completely free of oils, greases, acids, soaps and other foreign materials. The presence of water, unless excessive, will not interfere with adhesion or film forming characteristics. Parts must be dried before stacking.

SAFETY-FILM® 614 is a low viscosity liquid, and is applied by any method or technique to the particular application – flow coat, roll coater, mechanical wipe, immersion or spray.

Whenever a spray technique is selected for application of SAFETY-FILM® 614, a well-atomized spray is recommended. Application should utilize repeated strokes over the spray pattern to ensure a thin, even coat.

Care must be taken to avoid spraying a dry or partially dry pattern, since a dry spray will duit the final gloss. The ideal spray gun is one which combines a comparatively high capacity air cap with a low capacity nozzle, with the result that a large volume of air mixed with a relatively small volume of material. Internal and external air mix spray techniques are satisfactory for SAFETY-FILM® 614 application as is airless spray. In all cases, the atomization air pressure should be kept high — from 65-75 pounds. Avoid inhalation of product in spray application.

### RECOMMENDED DILUTIONS

Working dilutions of SAFETY-FILM® 514 should be determined by the end user. SAFETY-FILM® 614 can be diluted with tap water; however, if the local water is very hard, dilute with deignized water. For maximum protection and durability, use full strength.

### DRYING

SAFETY-FILM® 614 dries tack-free under ambient conditions in approximately 20 minutes. Drying can be accelerated by application of heated air and increased air velocity. Drying time can also be accelerated by heating parts prior to application of coating.

## REMOVABILITY

The dry film of SAFETY-FILM® 614 can be removed with chlorinated solvent vapor, degreaser solvents or alkaline cleaners such as COME CLEAN 900. Complete and efficient removal is a function of cleaner concentration, operating temperatures and contact/agitation time.

Use of SAFETY-FILM® 614 for unstated applications should be determined by the end user prior to actual production use.

### TEST DATA

		<u>Test Panels</u>	
ASTM-D-2247-68	Cold	Iron	Zinc
HUMIDITY CABINET	Roll Steel	Phosphate	Phosphate
100% - 100°F	Hrs.	Hrs.	Hrs.
Diutions (Water:Product)			
0:1	48	80	80
1:4	40	72	72
1:2	32	48	48
		Test Panels	
AGTM-B-117-73	Cold	lran	Zina
SALT FOG - 5% SALT	Roll Steel	Phosphate	Phosphate
100% - 100°F	Hrs.	Hrs.	Hrs.
Dilutions (Water:Product)			
0:1	2	4	15
1:4	1	2	6
1:2	-	2	5

Material Safety Data Sheets are available for all Castrol industrial products and must be consulted for appropriate information regarding storage, safe handling, and disposability. All reasonable care has been taken to ensure that the information contained in this publication is accurate as of the date of printing. However, such information may, nevertheless, be affected by changes in the blend formulation occurring subsequent to the date of printing.

071383/±L SAFETY-FILM® 614

#### CASTROL INDUSTRIAL INC.

C REACTIVITY О

FIRE

MATERIAL SAFETY DATA SHEET Emergency Phone No.: (708) 241-4000 Information Phone No.: (708) 241-4000

SPECIAL

1. MATERIAL IDENTIFICATION

PRODUCT TRADE NAME: SAFETY-FILM\*\* 614 MANUFACTURER: CASTROL INDUSTRIAL INC.

ADDRESS: 1001 WEST 31ST STREET DOWNERS GROVE IL, 60515-1280

MFG. FACILITY ADDRESS:

Preparer: D. Bell

Preparation Date: 08/30/1993

II. HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENTS

Fatty acids, tail-oil, compd. with morpholine

CAS No.

TLV (ACGIH)

PEL (OSHA)

68002-77-79 5-10

Contains no other ingredients now known to be hazardous as defined by OSHA 29 CFR 1910.1000 (subpart z) and OSHA CFR 29 1910.1200.

III. PHYSICAL PROPERTIES

APPEARANCE & COOR: Opaque tan emulsion; mild odor

BOILING POINT 'F ('C): 212

MELTING POINT 'F ('C): NA

SPECIFIC GRAVITY (H20=1): 1.0

VAPOR PRESSURE: NA VAPOR DENSITY (AIR=1): NA

EVAPORATION RATE (BUTYL ACETATE=1): <1

XVOLATILES BY VOLUME: 70-85

g/L 00.000 VOC: 000.00 lbs/gallon

99.99

VOC not yet determined

for this product.

SOLUBILITY IN HZO: miscible pH AS 15: 8.9-9.3

OH (DILUTE): NA

80%

IV. FIRE AND EXPLOSION HAZARDS

FLASHPOINT

(method used) NA :

Name 'F None 'C FLAMMABLE LIMITS

LEL NA UEL NA

EXTINGUISHING MEDIAL

Water, dry chemical, CO2, or "alcohol" foam.

SPECIAL FIRE FIGHTING PROCEDURES:

Weer self contained breething apparatus when fire fighting in a confined space. Cool fire exposed containers with waterspray to prevent rupture.

LMAISHAL FIRE & EXPLOSION HAZARDS;

Hone known.

CONTAINER HANDLING: DO NOT CUT OR WELD EMPTY DRUMS UNLESS THOROUGHLY CLEANED.

HEDS NUMBER: 5506.1

\*\* Registered in the U.S. Patent & Trademark Office

REVISED: 08/30/1993

SYABILITY. Rachia, namel anditions	
STABILITY: Stable- normal conditions	
CONDITIONS TO AVOID: None known.	
INCOMPATIBILITIES: Strong oxidizing agents HAZARDOUS DECOMPOSITION: Potential combustion products are oxides of carbon and nitrogen.	
HAZARDOUS POLYMERIZATION: Will Not Polymerize	
INCARAGO FOCINGALERION. BITE AND TOSYINGITED	
VI. HEALTH HAZARD SUMMARY	
ROUTES OF EXPOSURE AND EFFECTS OF GVEREXPOSURE	
EYES:	
Concentrate will cause eya irritation.	
SKIN ABSORPTION:	
No acute effects expected,	
THE MARKE BILLIANTE BIRDOUSES	
BKIN CONTACT:	
Concentrate may cause skin irritation.	
INHALATION:	
Hists of the concentrate and dilutions may cause respiratory irritation.	
HISTORY CHE CONDUINTED COMMITTED HER SECOND LESS HISTORY PROPERTY.	
INGESTION	
Concentrate is not expected to be toxic. LD50 (rat) is greater than 5.0 g/kg.	
CHRONIC EFFECTS:	
Repeated overexposure may result in delayed kidney and liver damage.	
THRESHOLD LIMIT VALUE: Not established. See section II	
CONTAINS KNOWN CARCINGENS: no NTP: no IARC; no OSHA: no	
EMERGENCY AND FIRST AID PROCEDURES	
EYES:	
Immediately flush eyes with plenty of water. Get medical attention if irritation persists.	
AM BN .	
SKIN:  Useh skin vieb room and veten. If freitetten require set medical attention. Useh elektring hadane reuse	
Wash skin with soap and water. If (rritation occurs, get medical attention. Wash clothing before reuse.	
INHALATION:	

If respiratory discomfort or irritation occurs, move the person to fresh air. See a doctor if discomfort or irritation continues.

If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

V. REACTIVITY DATA

NSDS NUMBER: 5506.1

INGESTION:

REVISED: 08/30/1993

VII	CONTROL	MEASURES

RECDI	YENTAGE	PROTECT	toll:

Good industrial hygiene practices recommend that engineering controls be used to reduce environmental concentrations to the threshold limit value (TLV) or permissible exposure limit (PEL). If any associated TLV or PEL is exceeded, provide NIOSH approved respiratory protection.

#### GLOVES:

Impervious gloves such as rubber should be used when handling this product.

#### EYE PROTECTION:

Safety glasses with side shield or chemical goggles.

#### OTHER:

Eyewash facility. Appropriate clothing to svoid skin contact.

#### VIII. PRECAUTIONS

#### CONTAINMENT PROCEDURES:

Absorb spill with inert material (e.g., dry send or earth), then place in a chemical waste container. Flush residual spill with water. For large spills, dike for later disposal.

#### WASTE DISPOSAL PROCEDURES:

Dispose of in accordance with local, state and federal regulations. Disposal of this material to the land may be banned by federal law (40 CFR 268).

#### STORAGE AND HANDLING PROCEDURES:

DO NOT ADD NITRITES TO THIS FLUID. Avoid contact with eyes. Avoid breathing mists. Do not take internally. Keep container closed when not in use. Bring product to room temperature before use.

#### RCRA HAZARDOUS WASTE DEBIGNATION:

This product does not fell under surrent ETA RORA definitions of hezordous waste.

#### CERCLA REPORTABLE QUANTITY:

This product does not contain any CERCLA regulated materials.

#### IX. OTHER HAZARD INFORMATION

PETROLEUM OIL: STEL = 10 mg/M3. Using terminology of the International Agency for Research on Cancer (IARC), the petroleum distillates listed in Section II are classified by the supplier as severely processed. Not all those listed in Section II may be present. The supplier has stated that these distillates do not require a carcinogen label as defined by OSHA 29 CFR 1910.1200.

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MEDS NUMBER: 5506.1	REVISED: 08/30/1993
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#### X. ADDITIONAL REGULATORY INFORMATION

OCCUPATIONAL SAFETY and HEALTH ADMINISTRATION (OSHA)

29 CFR 1910.1200 Hazardous Chemical: yes

SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 (SARA)

Section 302, Extremely Mazardous Substance: no

Section 311, Hazardous Chemical: yes

immediate: yes Delayed: yes Fire: no Sudden Release: no Reactive: no

Section 313, Toxic Chemical: no

TOXIC SUBSTANCES CONTROL ACT (TSCA)

This product is a mixture and is NOT listed in the TSCA Inventory. The individual ingredients in the product are listed in the TSCA Inventory.

DEPARTMENT OF TRANSPORTATION (DOT)

PROPER SHIPPING NAME : not regulated

HAZARD CLASS (49 CFR 172.101): not applicable

MAZARD ID NUMBER: not applicable

FREIGHT CLASS

NMFC 50234, COMPOUNDS, IRON OR STEEL, RUST PREVENTING OR REMOVING, O/T PETROLEUM

#### DISCLAIMER

Information presented herein has been compiled from information provided to us by our suppliers and other sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or the use of any product in violation of any patent or in violation of any patent or in violation of any law or regulation. It is the users' responsibility to determine the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. We make no warranty as to the results to be obtained in using any material and since conditions of use are not under our control, we must necessarily disclaim all liability with respect to the use of any material supplied by us.

M8DS NUMBER: 5506.1 REVISED: 08/30/1993

JOHNSON WAX Material Safety Data Sheet Page 1 S.C. Johnson & Son, Inc. Emergency Medical Phone: (414) 631-2000 1525 Howe Street Informational Contact: Gordon B. Bradshaw Racine, Wisconsin 53403 Phone: (414) 631-2777 PRODUCT NAME: JON-DRAW 722 HMIS RATING PRODUCT NUMBER: 18160 HEALTH: 1 SERIAL NUMBER: 013-014 ISSUE DATE: 11/06/86 FLAMMABILITY: 1 SUPERCEDES DATE: 03/17/86 REACTIVITY: 0 \*\*\*\*\*\*\*\*\*\*\* Section II - Ingredient Information \*\*\*\*\*\*\*\*\*\*\*\*\* WEIGHT % INGREDIENT AND EXPOSURE LIMIT 70-80 Chlorinated Paraffin (CAS #63449- 39-8) (NTP Listed-See Section X). 20-30 Paraffin Oil Exposure Limit: 5mg\m3 (ACGIH TLV-TWA) (OSHA PEL) (Oil Mist) 4 - 6under 1 Surfactants APPEARANCE/ODOR: Opaque, orange brown liquid with mild odor VAPOR PRESSURE (AIR=1): ND SOLUBILITY IN WATER: Negligible FREEZING POINT (F): NA PH: NA SPECIFIC GRAVITY (H20=1): 1.07 PERCENT VOLATILE BY VOLUME (%): VAPOR DENSITY (AIR=1): ND BOILING POINT (F): above 300 EVAPORATION RATE (BUTYL ACETATE=1): NA FLASH POINT (F) (METHOD USED): above 250 FLAMMABLE LIMITS: EXTINGUISHING MEDIA: Foam, CO2, Dry Chemical, Water Fog SPECIAL FIREFIGHTING PROCEDURES: Fire fighters should wear self-contained breathing apparatus and protective clothing. Cool and use caution when approaching or handling fire-exposed containers. UNUSUAL FIRE AND EXPLOSION HAZARDS: Container may burst in heat of fire. 

PRIMARY ROUTE OF ENTRY: Skin Contact

TRW-01415

S.C. Johnson & Son, Inc. 1525 Howe Street Racine, Wisconsin 53403 JON-DRAW 722
PRODUCT NUMBER: 18160
Serial Number: 013-014

\*\*\*\*\*\* Section V - Health Hazard Data (cont.) \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

SIGNS AND SYMPTOMS: Direct contact of product with eyes can cause irritation. Prolonged or repeated contact of product with skin may cause irritation. If taken internally, aspiration of liquid product can cause chemical pneumonitis.

FIRST AID PROCEDURES: Flush eyes with water for 15 minutes. If irritation persists, seek medical aid. If product is swallowed, do not induce vomiting. Seek medical aid at once. If product gets on skin, remove with soap and water.

\*\*\*\*\*\*\*\*\*\*\*\*\* Section VI - Reactivity Data \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

STABILITY: Stable

STABILITY-CONDITIONS TO AVOID: None known to SCJ

INCOMPATIBILITY: Strong alkalis\bases\caustics (e.g., sodium hydroxide).

HAZARDOUS DECOMPOSITION PRODUCTS: Possible liberation of chlorine at

temperatures above 400 F.

HAZARDOUS POLYMERIZATION: Will Not Occur

HAZARDOUS POLYMERIZATION-CONDITIONS TO AVOID: None known to SCJ

\*\*\*\*\*\*\*\*\*\*\* Section VII - Spill or Leak Procedures \*\*\*\*\*\*\*\*\*\*\*\*\*\*

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb with oil-dri or similar inert material. Sweep or scrape up and containerize. WASTE DISPOSAL INFORMATION: No special method. Observe all applicable

WASTE DISPOSAL INFORMATION: No special method. Observe all applicable Federal\State regulations and Local ordinances regarding disposal of non-hazardous materials.

\*\*\*\*\*\*\* Section VIII - Special Protection Information \*\*\*\*\*\*\*\*\*

RESPIRATORY PROTECTION: If ventilation is adequate, respiratory protection not required.

VENTILATION: General room ventilation is normally adequate. Substantial amounts of mists\vapors can be controlled with local exhaust ventilation or respiratory protection.

PROTECTIVE GLOVES: If prolonged or repeated contact with undiluted product is possible: Any impervious material.

EYE PROTECTION: Eye protection not required unless contact with undiluted product is possible.

OTHER PROTECTIVE MEASURES: Use good personal hygiene practices. Where gross eye\skin contact may be a problem, wear\use appropriate protective equipment.

Material Safety Data Sheet

JOHNSON WAX

JON-DRAW 722

PRODUCT NUMBER: 18160

S.C. Johnson & Son, Inc. 1525 Howe Street

Racine, Wisconsin 53403

Serial Number: 013-014

PRECAUTIONARY LABELING: CAUTION: Product may be harmful if swallowed. May be irritating to eyes. If eye contact occurs, immediately flush with water for 15 minutes. If irritation continues, see a doctor.

Avoid prolonged contact of undiluted

product with skin. Good industrial hygiene practices should be followed when working with this product.

OTHER HANDLING AND STORAGE CONDITIONS: Wash thoroughly after handling. Keep out of reach of children.

C-24 Chlorinated paraffins containing 43% chlorine were not mutagenic when tested in the Ames Assay. In a recent National Toxicology Program bioassay, when force fed to rats and mice at high levels for long periods of time, this chlorinated paraffin produced a carcinogenic response in male mice only. These conditions represent extreme exposure conditions which are quite unlikely to be encountered by humans during handling or manufacturing use of chlorinated paraffins.

For information on appropriate emergency procedures phone: (414) 631-2000

NA - Not Applicable NSR - No Special Requirement

ND - Not Determined for this product

The information herein is given in good faith. No warranty, expressed or implied, is made. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State and local laws and regulations.

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## Subsidiary of THE ANDREW JERGENS COMPANY

June 9, 1986

TO WHOM IT MAY CONCERN:

On November 25, 1983, the Occupational Safety and Health Administration (OSHA) published a final occupational safety and health standard entitled "Hazard Communication" (29 CFR 1910.1200). All employers subject to the standard were required to be in compliance by May 25, 1986. The purpose of this standard is to ensure that hazards of all chemicals produced and distributed are evaluated and proper information regarding those hazards is transmitted to affected employers and employees within the manufacturing section.

This standard and state laws which establish a similar standard are commonly referred to as "Right-to-Know" laws.

In paragraph (5)(v) of Hazard Communication (29 CFR 1910.1200), it states, "This section does not apply to:....foods, drugs, or cosmetics intended for personal consumption by employees while in the workplace."

All SBS skin care products are defined as drugs or cosmetics by Federal law. SBS Products, Inc. is registered with the Food and Drug Administration (FDA) as a Drug Establishment and a Cosmetic Product Establishment. Since SBS skin care products are drugs or cosmetics, they are subject to the labeling requirements of the Federal Food, Drug and Cosmetic Act and labeling regulations issued by FDA.

Because the OSHA Hazard Communication standard does not apply to drugs and cosmetics intended for personal consumption by employees while in the workplace, you do not require Material Safety Data Sheets on SBS skin care products to comply with this Federal regulation.

Material Safety Data Sheets on SBS skin care products are available, however, if deemed necessary. As in the past, we will send the sheets upon written request.

A copy of the portion of 29 CFR which is quoted in this letter is attached.

Sincerely.

Robert L. Blasko

Executive Vice President